



Element Materials Technology - Fort Wayne
328 Ley Rd.
Fort Wayne, IN 46825
TEL: (260) 424-1622 FAX: (260) 424-9124
Website: www.element.com

March 27, 2020

Nickie Geros
East Chicago Sanitary District
5201 Indianapolis Blvd
East Chicago, IN 46312
TEL: 219-391-8466
FAX:

RE: S-901

Order No.: 20032132

Dear Nickie Geros:

Element Materials Technology - Fort Wayne received 2 sample(s) on 3/20/2020 for the analyses presented in the following report.

In accordance with your instructions, Element Materials Technology Indiana conducted the analysis shown on the following pages on samples submitted by your company. The results relate only to the items tested. Unless otherwise noted, all analysis was conducted using approved methodologies from EPA, SM, or other client-specified methods. All relevant sampling information is on the attached chain-of-custody form. The initials SUB as the analyst designate any testing sub-contracted by Element Materials Technology Indiana.

This report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Samantha K. Packard
Project Manager
328 Ley Rd.
Fort Wayne, IN 46825



Element Materials Technology - Fort Wayne
328 Ley Rd.
Fort Wayne, IN 46825
TEL: (260) 424-1622 FAX: (260) 424-9124
Website: www.element.com

Analytical Report

(wastewater)

WO#: 20032132

Date Reported 3/27/2020

CLIENT: East Chicago Sanitary District
Project: S-901
Lab ID: 20032132-001
Client Sample ID #901
Sample Location:

Collection Date: 3/19/2020 9:38:00 AM
Matrix: WASTEWATER

Analyses	Result	RL	Qual	Units	DF	PL	Date Analyzed
CYANIDE, AVAILABLE BY LIGAND EXCHANGE				OIA-1677-09		Analyst: AN	
Cyanide, Available	0.12	0.0020		mg/L	1		3/24/2020 10:40:00 AM
OIL AND GREASE, TOTAL				E1664		Analyst: HF	
Oil & Grease, Total	6.8	5.0		mg/L	1	50.0	3/23/2020 12:49:45 PM
SV COMPOUNDS FOR CATEGORICAL RQTS				E625		Analyst: SF	
Bis(2-ethylhexyl)phthalate	< 0.10	0.10		mg/L	10	0.16	3/25/2020 3:32:00 PM

Qualifiers:	*	Value exceeds Maximum Contaminant Level	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response
	ND	Not Detected at the Reporting Limit	PL	Permit Limit
	PQL	Practical Quantitation Limit	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		



Element Materials Technology - Fort Wayne
328 Ley Rd.
Fort Wayne, IN 46825
TEL: (260) 424-1622 FAX: (260) 424-9124
Website: www.element.com

Analytical Report

(wastewater)

WO#: 20032132

Date Reported 3/27/2020

CLIENT: East Chicago Sanitary District **Collection Date:** 3/19/2020 9:38:00 AM
Project: S-901
Lab ID: 20032132-002 **Matrix:** WASTEWATER
Client Sample ID #901
Sample Location:

Analyses	Result	RL	Qual	Units	DF	PL	Date Analyzed
FLUORIDE					E300.0		Analyst: HN
Fluoride	4.2	0.5	*	mg/L	5	2.9	3/24/2020 5:32:18 PM
CHEMICAL OXYGEN DEMAND					M5220 D		Analyst: MAH
Chemical Oxygen Demand	549	10.0		mg/L	1		3/24/2020 3:25:00 PM
AMMONIA AS N					E350.1		Analyst: AC
Nitrogen, Ammonia (As N)	42.4	1.00		mg/L	10	77.0	3/23/2020 1:41:28 PM
PHENOLICS IN WASTEWATER					E420.1		Analyst: ANS
Phenolics, Total Recoverable	0.069	0.050		mg/L	2	0.700	3/25/2020 3:44:20 PM
TOTAL PHOSPHORUS					M4500-P F		Analyst: HN
Total Phosphorus	0.367	0.100		mg/L	1	5.50	3/23/2020 2:36:32 PM
TOTAL SUSPENDED SOLIDS					M2540 D		Analyst: MAH
Suspended Solids (Residue, Non-Filterable)	107	20		mg/L	1		3/23/2020 4:30:00 PM
MERCURY					E245.1		Analyst: FJR
Mercury	0.00011	0.00010		mg/L	1		3/24/2020 10:54:55 AM
METALS IN WATER BY ICP-MS, TOTALS					E200.8		Analyst: FJR
Arsenic	0.0141	0.00020		mg/L	1	0.500	3/24/2020 1:32:39 PM
Chromium	0.00370	0.00040		mg/L	1	0.282	3/24/2020 1:32:39 PM
Copper	0.00394	0.00020		mg/L	1	0.301	3/24/2020 1:32:39 PM
Lead	0.00045	0.00020		mg/L	1	0.224	3/24/2020 1:32:39 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitation Limit
- S Spike Recovery outside accepted recovery limits

- H Holding times for preparation or analysis exceeded
- M Manual Integration used to determine area response
- PL Permit Limit
- RL Reporting Detection Limit



Element Materials Technology - Fort Wayne
328 Ley Rd.
Fort Wayne, IN 46825
TEL: (260) 424-1622 FAX: (260) 424-9124
Website: www.element.com

Analytical Report

(wastewater)

WO#: 20032132

Date Reported 3/27/2020

CLIENT: East Chicago Sanitary District

Collection Date: 3/19/2020 9:38:00 AM

Project: S-901

Lab ID: 20032132-002

Matrix: WASTEWATER

Client Sample ID #901

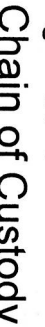
Sample Location:

Analyses	Result	RL	Qual	Units	DF	PL	Date Analyzed
METALS IN WATER BY ICP-MS, TOTALS				E200.8	Analyst: FJR		
Molybdenum	0.0223	0.00020		mg/L	1	0.200	3/24/2020 1:32:39 PM
Nickel	0.0129	0.00100		mg/L	1	0.390	3/24/2020 1:32:39 PM
Zinc	0.112	0.00400		mg/L	10	1.48	3/26/2020 11:07:42 AM

Qualifiers:

* Value exceeds Maximum Contaminant Level
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit
PQL Practical Quantitation Limit
S Spike Recovery outside accepted recovery limits

H Holding times for preparation or analysis exceeded
M Manual Integration used to determine area response
PL Permit Limit
RL Reporting Detection Limit



2022/30

Which Regulations Apply:		Turn Time	(Rush turn times will incur a surcharge and must be pre-approved by lab.)		Container	Pres.	Requested Tests								Comments	
<input type="checkbox"/> RCRA <input type="checkbox"/> POTW <input type="checkbox"/> NPDES <input type="checkbox"/> USDA/FDA <input type="checkbox"/> RECAP/RI/SC		5 TAT			Quantity	Type P=Plastic, G=Glass, V=Vial	HCl, HNO ₃ , H ₂ SO ₄ , NaOH, Na ₂ S ₂ O ₃	CYANIDE 1677	Oil & Grease Total	Bis(2EH) Phthalate	*Metals	NH ₃ , T.PHOS, COD	PHENOL	300:FI,	TSS	
Sample ID/Description	Collection Information			Matrix	Quantity	Type P=Plastic, G=Glass, V=Vial	HCl, HNO ₃ , H ₂ SO ₄ , NaOH, Na ₂ S ₂ O ₃	CYANIDE 1677	Oil & Grease Total	Bis(2EH) Phthalate	*Metals	NH ₃ , T.PHOS, COD	PHENOL	300:FI,	TSS	
	Date	Time	Grab / Composite													
S-901 Grab	3-19-20	9:38	Grab	WW	1	P	NaOH	X								
S-901 Grab			Grab	WW	1	G	H ₂ SO ₄		X							
S-901 Grab			Grab	WW	1	G	NONE			X						
S-901 Composite			Comp	WW	1	P	HNO ₃				X					
S-901 Composite			Comp	WW	1	P	H ₂ SO ₄					X				
S-901 Composite			Comp	WW	1	G	H ₂ SO ₄						X			
S-901 Composite			Comp	WW	2	P	NONE							X	X	

Temp 17.7°C

*As, Cr, Cu, Pb, Mo, Ni, Zn, & Hg,

Samples Meet Acceptance Policy
☒ Yes ☐ No

**2417 W. Pinhook Rd
Lafayette, LA
70508-3344 USA
P 337-235-0483
F 337-235-0483**